

What is claimed is:

1. A recycling facilitating system which facilitates disassembly of an item to be recycled, comprising:

5 an item identification data input unit, through which item identification data for identifying the item to be recycled is input;

an item disassembly data memory, which stores item disassembly data for constructing a plurality of different disassembly diagrams showing steps of disassembling the item to be recycled in correspondence with the item identification data;

10 an item disassembly data retrieval unit, which retrieves the item disassembly data from the item disassembly data memory based on the item identification data that was input by the item identification data input unit;

a disassembly diagram constructing unit, which constructs the disassembly diagram based on the item disassembly data that was retrieved by the item disassembly data retrieval unit; and

15 a disassembly diagram output unit, which outputs the disassembly diagram that was constructed by the disassembly diagram constructing unit,

wherein the disassembly diagram constructing unit determines the progress status of an operation step of disassembling the item to be recycled by identifying a component that was removed during the operation step, and, in accordance with the progress status which was identified, constructs one of a plurality of disassembly diagrams, which can be constructed from the item disassembly data that was retrieved by the item disassembly data retrieval unit.

25 2. The recycling facilitating system according to Claim 1, wherein the removed

component being identified by comparing an image of the removed component with an image created from CAD data of candidate components.

3. The recycling facilitating system according to Claim 1, wherein the removed
5 component is identified by detecting a reduction in weight of the item to be recycled, and comparing a weight corresponding to the reduction with weights of candidate components.

4. The recycling facilitating system according to Claim 1, wherein the removed
10 component is identified by reading component identification written in an RFID tag appended to the removed component.

5. A recycling facilitating method which facilitates disassembly of an item to be recycled, comprising the steps of:

15 inputting item identification data for identifying the item to be recycled;
 storing item disassembly data for constructing a plurality of different
disassembly diagrams showing steps of disassembling the item to be recycled in
correspondence with the item identification data;
 retrieving the item disassembly data in a data stored in the step of storing item
20 disassembly data, based on the item identification data that was input in the step of
inputting item identification data;
 constructing the disassembly diagram based on the item disassembly data
retrieved in the step of retrieving the item disassembly data; and
 outputting the constructed disassembly diagram constructed in the step of
25 constructing the disassembly diagram,

wherein the step of constructing the disassembly diagram comprising
determining the progress status of an operation step of disassembling the item to be
recycled, by identifying a component that was removed during the operation step, and, in
accordance with the progress status which was identified, constructing one of a plurality
5 of disassembly diagrams, which can be constructed from the item disassembly data that
was retrieved in the step of retrieving the item disassembly data.

6. A recycling facilitating program which facilitates disassembly of an item to be
recycled, comprising the processes of:

10 inputting item identification data for identifying the item to be recycled;
storing item disassembly data for constructing a plurality of different
disassembly diagrams showing steps of disassembling the item to be recycled in
correspondence with the item identification data;

retrieving the item disassembly data in a data stored in the process of storing
15 item disassembly data, based on the item identification data that was input in the process
of inputting item identification data;

constructing the disassembly diagram based on the item disassembly data
retrieved in the process of retrieving the item disassembly data; and

outputting the constructed disassembly diagram constructed in the process of
20 constructing the disassembly diagram,

wherein the process of constructing the disassembly diagram comprising
determining the progress status of an operation step of disassembling the item to be
recycled, by identifying a component that was removed during the operation step, and, in
accordance with the progress status which was identified, constructing one of a plurality
25 of disassembly diagrams, which can be constructed from the retrieved item disassembly

data that was retrieved in the process of retrieving the item disassembly data.

7. A recycling facilitating system which facilitates disassembly of an item to be recycled, comprising:

5 an item identification data input unit, through which item identification data for identifying the item to be recycled is input;

an item disassembly data memory, which stores item disassembly data for constructing a plurality of different disassembly diagrams showing steps of disassembling the item to be recycled in correspondence with the item identification data;

10 an item disassembly data retrieval unit, which retrieves the item disassembly data from the item disassembly data memory based on the item identification data that was input by the item identification data input unit;

a disassembly diagram constructing unit, which constructs the disassembly diagram based on the item disassembly data that was retrieved by the item disassembly data retrieval unit; and

15 a disassembly diagram output unit, which outputs the disassembly diagram that was constructed by the disassembly diagram constructing unit,

wherein the disassembly diagram constructing unit determines the progress status of an operation step of disassembling the item to be recycled by identifying a tool that was used during the operation step, and, in accordance with the progress status which was identified, constructs one of a plurality of disassembly diagrams, which can be constructed from the item disassembly data that was retrieved by the item disassembly data retrieval unit.

25 8. The recycling facilitating system according to Claim 7, wherein the tool is

identified by detecting the position, and the number of times the tool was used, from images.

9. The recycling facilitating system according to Claim 8, wherein, in the case in which the tool is an electric tool, the tool is identified from the status transition of a switch of the tool, in addition to the position and the number of times the tool was used.

10. A recycling facilitating method which facilitates disassembly of an item to be recycled, comprising the steps of:

10 inputting item identification data for identifying the item to be recycled;

storing item disassembly data for constructing a plurality of different disassembly diagrams showing steps of disassembling the item to be recycled in correspondence with the item identification data;

retrieving the item disassembly data in a data stored in the step of storing item disassembly data, based on the item identification data that was input in the step of inputting item identification data;

constructing the disassembly diagram based on the item disassembly data retrieved in the step of retrieving the disassembly data; and

outputting the constructed disassembly diagram constructed in the step of

20 constructing the disassembly diagram,

wherein the step of constructing the disassembly diagram constructing step comprising determining the progress status of an operation step of disassembling the item to be recycled by identifying a tool that was used during the operation step, and, in accordance with the progress status which was identified, constructing one of a plurality of disassembly diagrams, which can be constructed from the item disassembly data that

was retrieved in the step of retrieving the item disassembly data.

11. A recycling facilitating program which facilitates disassembly of an item to be recycled, comprising the processes of:

- 5 inputting item identification data for identifying the item to be recycled;
- storing item disassembly data for constructing a plurality of different
- disassembly diagrams showing steps of disassembling the item to be recycled in
- correspondence with the item identification data;
- retrieving the item disassembly data in a data stored in the process of storing
- 10 item disassembly data, based on the item identification data that was input in the process
- of inputting item identification data;
- constructing the disassembly diagram based on the item disassembly data
- retrieved in the process of retrieving the item disassembly data; and
- outputting the constructed disassembly diagram constructed in the process of
- 15 constructing the disassembly diagram,
- wherein the process of constructing the disassembly diagram comprising
- determining the progress status of an operation step of disassembling the item to be
- recycled by identifying a tool that was used during the operation step, and, in accordance
- with the progress status which was identified, constructing one of a plurality of
- 20 disassembly diagrams, which can be constructed from the retrieved item disassembly
- data that was retrieved in the process of retrieving the item disassembly data.

12. A recycling facilitating system which facilitates disassembly of an item to be recycled, comprising:

- 25 an item identification data input unit, through which item identification data for

identifying the item to be recycled is input;

an item disassembly data memory, which stores item disassembly data for constructing a plurality of different disassembly diagrams showing steps of disassembling the item to be recycled in correspondence with the item identification data;

5 an item disassembly data retrieval unit, which retrieves the item disassembly data from the item disassembly data memory based on the item identification data that was input by the item identification data input unit;

a disassembly diagram constructing unit, which constructs the disassembly diagram based on the item disassembly data that was retrieved by the item disassembly data retrieval unit; and

10 a disassembly diagram output unit, which outputs the disassembly diagram that was constructed by the disassembly diagram constructing unit,

wherein the disassembly diagram constructing unit constructs the disassembly diagram so that a component to be disassembled in each disassembly step can be identified.

13. The recycling facilitating system according to Claim 12, wherein the disassembly diagram constructing unit changes a display pattern for each material of components to be disassembled in the disassembly diagram.

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14. The recycling facilitating system according to Claim 12, wherein the disassembly diagram constructing unit changes a display color of each recycle processing method of components to be disassembled in the disassembly diagram.

25 15. The recycling facilitating system according to Claim 14, wherein the display

colors are the same colors as component collecting boxes, which are allocated for each recycle processing method.

16. A recycling facilitating method which facilitates disassembly of an item to be recycled, comprising the steps of:

inputting item identification data for identifying the item to be recycled;

storing item disassembly data for constructing a plurality of different disassembly diagrams showing steps of disassembling the item to be recycled in correspondence with the item identification data;

retrieving the item disassembly data in a data stored in the step of storing item disassembly data, based on the item identification data that was input in the step of inputting item identification data;

constructing the disassembly diagram based on the item disassembly data retrieved in the step of retrieving the item disassembly data; and

outputting the constructed disassembly diagram constructed in the step of constructing the disassembly diagram,

wherein the step of constructing disassembly diagram comprising constructing the disassembly diagram so that components to be disassembled in each disassembly step can be identified.

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17. A recycling facilitating program which facilitates disassembly of an item to be recycled, comprising the processes of:

inputting item identification data for identifying the item to be recycled;

storing item disassembly data for constructing a plurality of different disassembly diagrams showing steps of disassembling the item to be recycled in

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correspondence with the item identification data;

retrieving the item disassembly data in a data stored in the process of storing item disassembly data, based on the item identification data that was input in the process of inputting item identification data;

5 constructing the disassembly diagram based on the item disassembly data retrieved in the process of retrieving the item disassembly data; and

outputting the constructed disassembly diagram constructed in the process of constructing the disassembly diagram,

wherein the process of constructing the disassembly diagram comprising

10 constructing the disassembly diagram so that components to be disassembled in each disassembly step can be identified.